

**From:** [Sanchez, Carlos](#)  
**To:** [Phillip Winsor](#); [Mueller, Brian](#)  
**Subject:** RE: TRRP Documents FW: Groundwater Classification for Dock Area at Falcon Refinery Site  
**Date:** Wednesday, June 25, 2014 4:26:47 PM

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Thanks Phil, this is very helpful information. CAS

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**From:** Phillip Winsor [mailto:phillip.winsor@tceq.texas.gov]  
**Sent:** Wednesday, June 25, 2014 3:50 PM  
**To:** Mueller, Brian  
**Cc:** Sanchez, Carlos  
**Subject:** TRRP Documents FW: Groundwater Classification for Dock Area at Falcon Refinery Site

Brian,  
The link below is for Institutional Controls;

[http://www.tceq.texas.gov/publications/rg/rg-366\\_trrp\\_16.html](http://www.tceq.texas.gov/publications/rg/rg-366_trrp_16.html)

The next links address PMZs;

[http://www.tceq.texas.gov/publications/rg/rg-366\\_trrp\\_28.html](http://www.tceq.texas.gov/publications/rg/rg-366_trrp_28.html)

[http://www.tceq.texas.gov/publications/rg/rg-366\\_trrp\\_29.html](http://www.tceq.texas.gov/publications/rg/rg-366_trrp_29.html)

Using MNA;  
[http://www.tceq.texas.gov/publications/rg/rg-366\\_trrp\\_33.html](http://www.tceq.texas.gov/publications/rg/rg-366_trrp_33.html)

The use of PMZs to manage a contaminant plume exceeding PLCs is not uncommon. This should be good vacation reading..... I've cc'd Carlos as you requested. I hope you have a great time off, take care.

Sincerely;

Phillip Winsor, PE  
Project Manager  
Superfund Section  
Remediation Division  
Texas Commission on Environmental Quality  
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**From:** Phillip Winsor



9597622

**Sent:** Wednesday, June 25, 2014 2:29 PM

**To:** 'Mueller, Brian'

**Subject:** RE: Groundwater Classification for Dock Area at Falcon Refinery Site

Brian,

As we've discussed, to obtain a groundwater classification other than Class 1 (default) there is certain hydro-geological data that must be provided. The TRRP guidance document for Groundwater Classification is included below. Will any historic data along with the data you've recently collected, that info. is available. Hopefully the quality of the groundwater at the barge dock facility is very saline w/high TDS greater than 10,000 mg/L, and/or has a hydraulic conductivity of  $1 \times 10^{-5}$  cm/sec or less.

[http://www.tceq.texas.gov/publications/rg/rg-366\\_trrp\\_08.html](http://www.tceq.texas.gov/publications/rg/rg-366_trrp_08.html)

I've cut and pasted a paragraph from the guidance:

"The results of the groundwater resource classification for all affected GWBUs and threatened hydraulically-interconnected GWBUs shall be submitted for TCEQ review in Section 2.5 of the Affected Property Assessment Report (APAR). The report should provide sufficient explanation and documentation to demonstrate proper classification of the groundwater resource and support TCEQ review. The responsibility is on the person to methodically present a convincing justification that the groundwater is Class 2 or Class 3."

I don't have a copy of an APAR application (Sec. 2.5), but should be easy to find. Hope this helps, talk with you soon.

Phillip Winsor, PE

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**From:** Mueller, Brian [<mailto:Mueller.Brian@epa.gov>]

**Sent:** Wednesday, June 25, 2014 1:24 PM

**To:** Phillip Winsor

**Subject:** Groundwater Classification for Dock Area at Falcon Refinery Site

Good afternoon Phil

We talked about the groundwater classification at the Falcon Site a couple of weeks ago and I would

like to follow up on our conversation. EPA would like to request TCEQ's determination of the classification of the shallow aquifer (2-5 feet below the surface) in the direct vicinity of the barge dock.

Thanks

Brian W Mueller RPM

EPA R6 Superfund

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